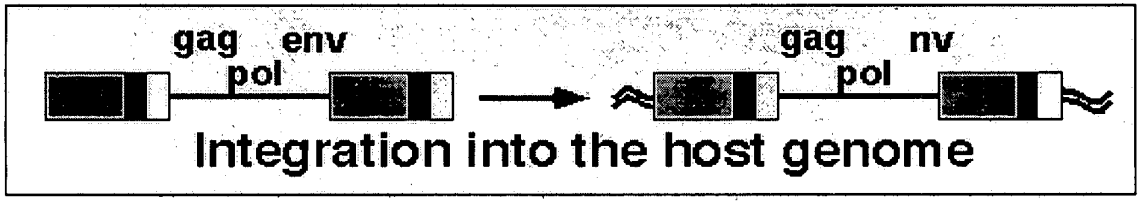


Formation of circular HIV-1 forms

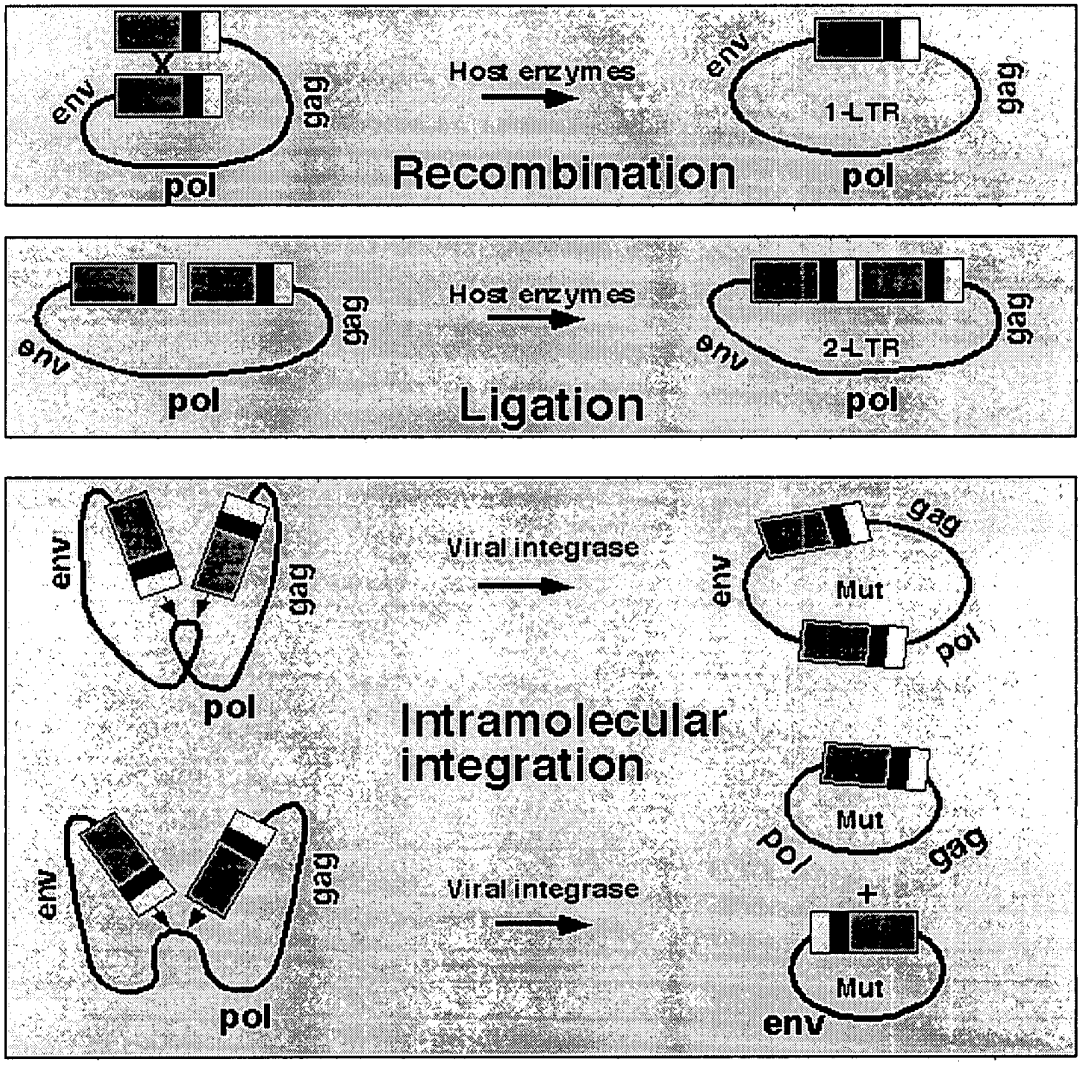


FIG. 1

Analysis of episomal HIV-1 vectors

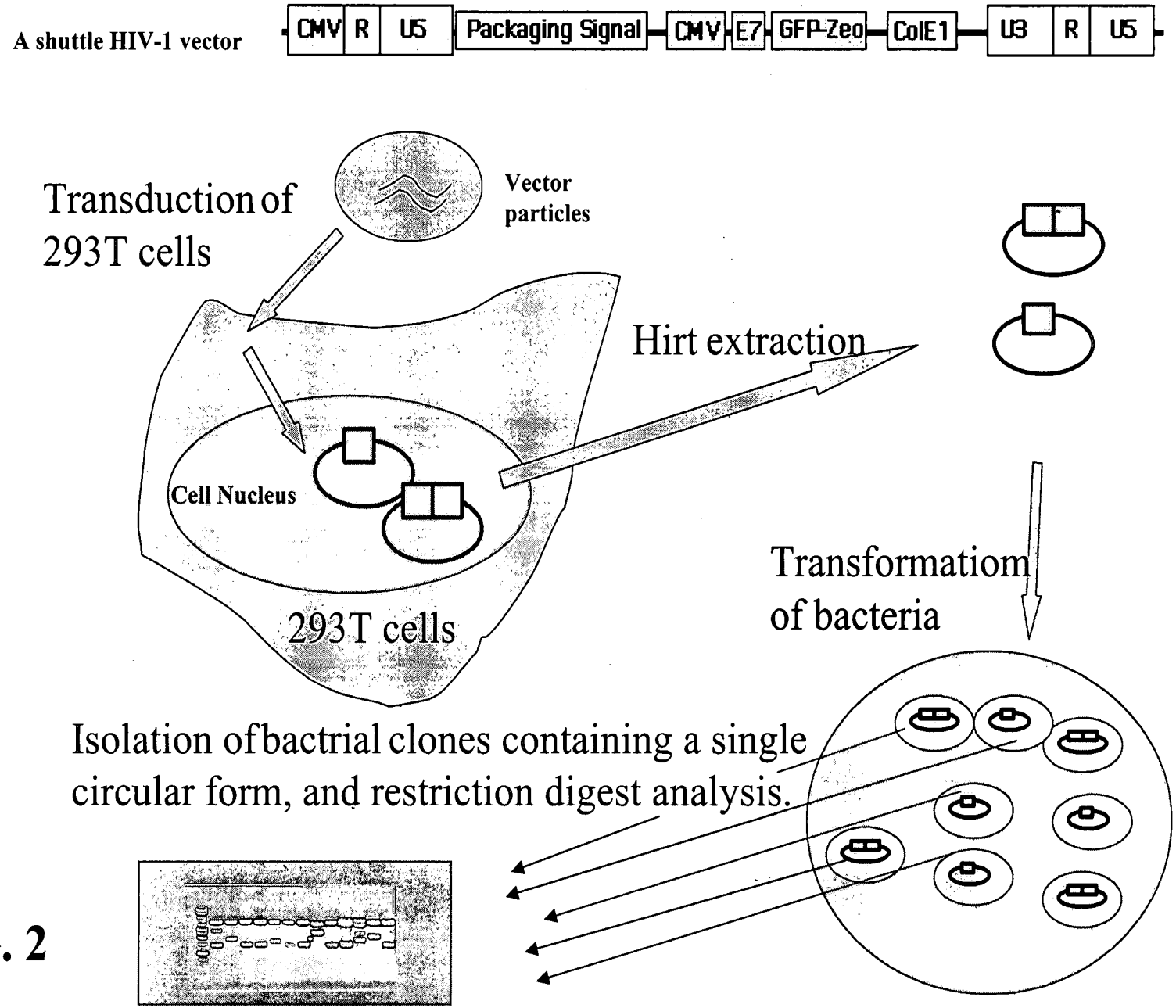
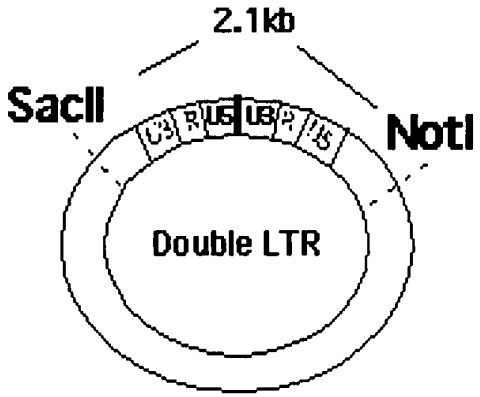
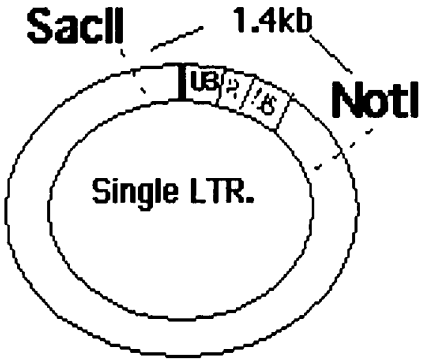


FIG. 2

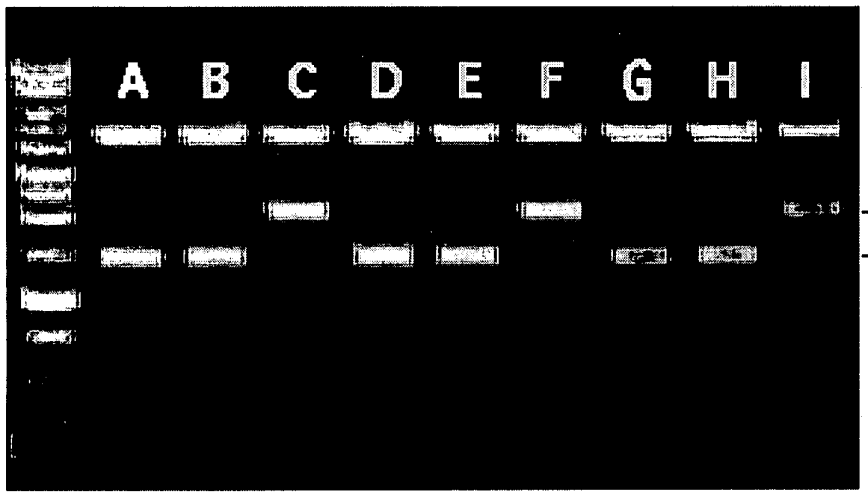
Restriction digest analysis of episomal lentivirus vectors containing one and two LTRs.

Wild type integrase.





Mutant integrase.



	One	Two	Mut
W.T integrase	38 72%	7 13%	8 15%
Mutant integrase	36 67%	16 30%	2 3%

FIG. 3

Can an episomal HIV-1 vector be mobilized ?

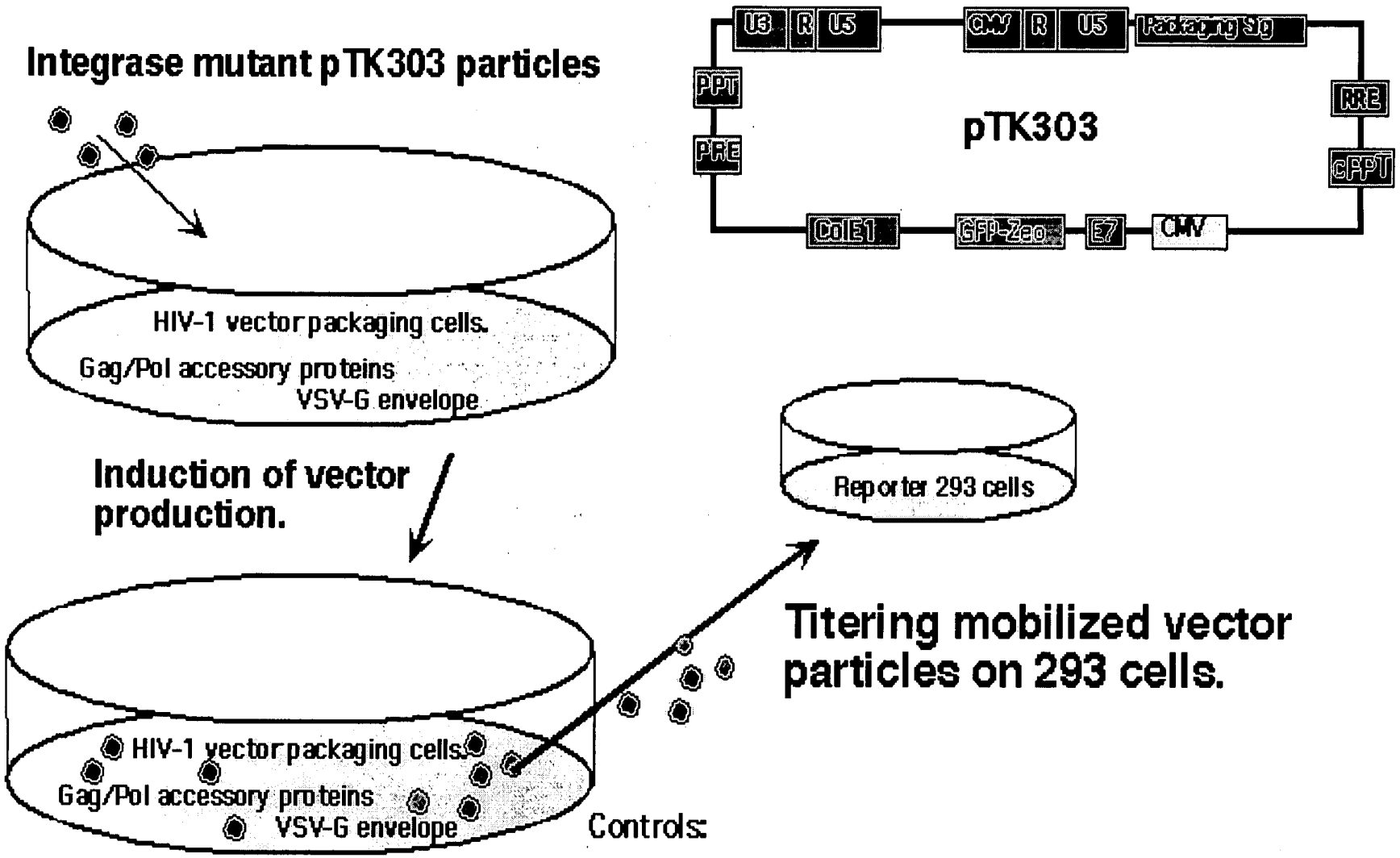


FIG. 4

Controls:

A. Vector production without Gag/Pol, and Env induction.

B. Vector production following passage of transduced packaging cells.

Episomal vector forms support efficient production of integrating vector particles.

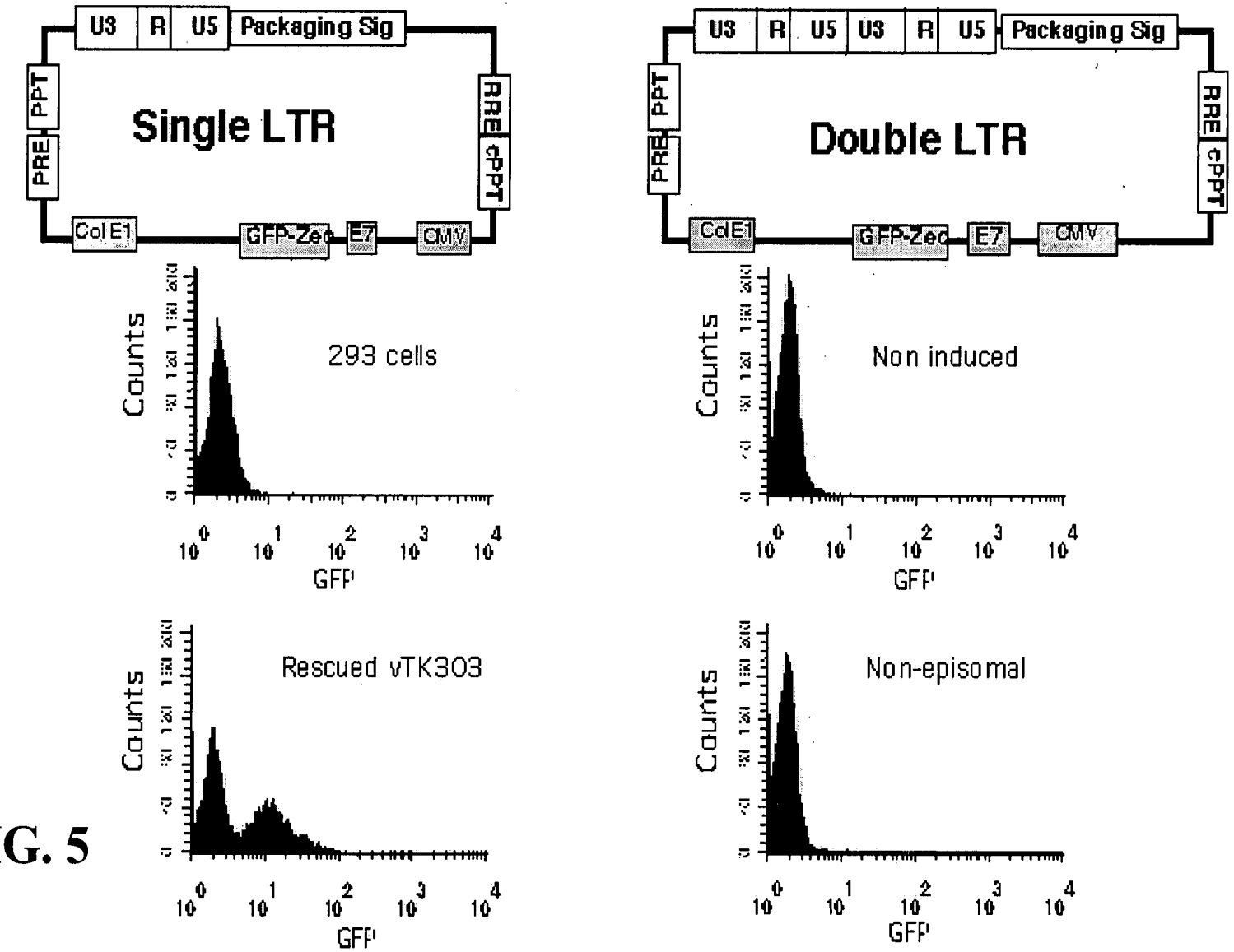
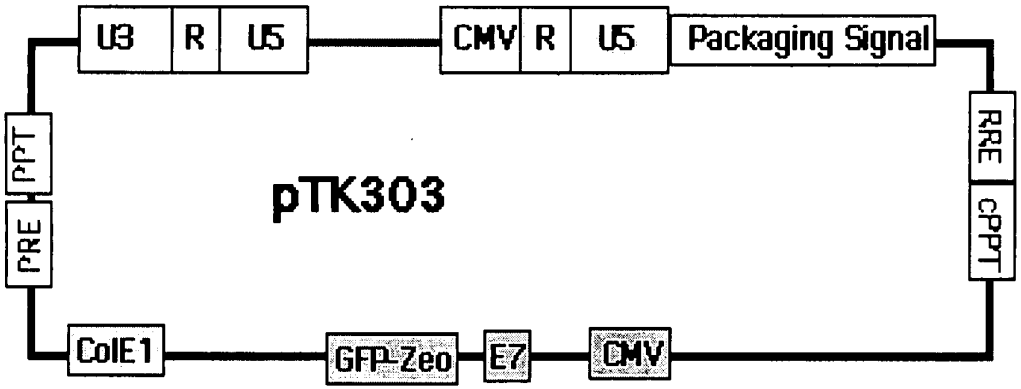
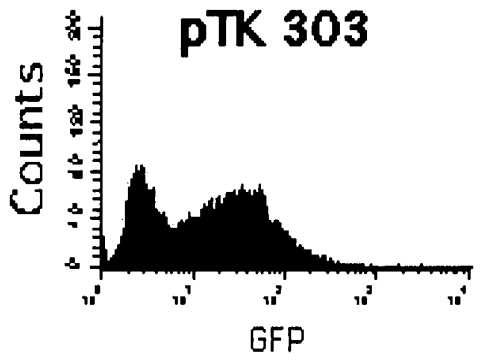
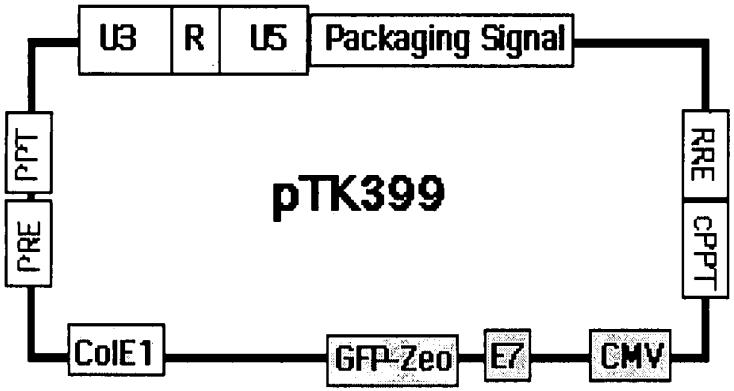


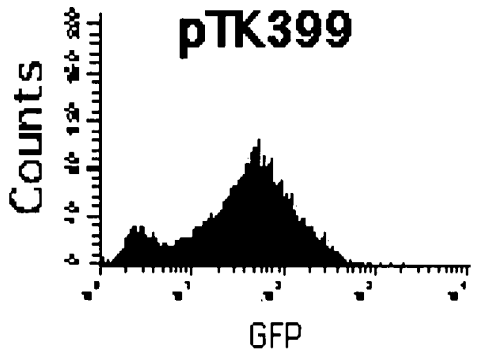
FIG. 5

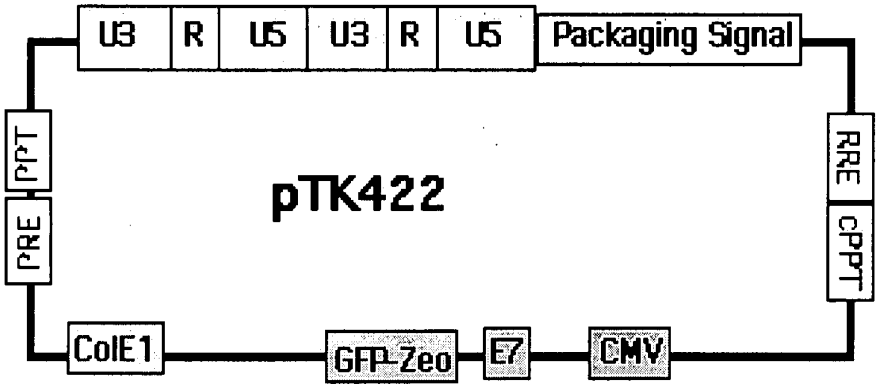
Transduction by lentivirus vectors containing one and two LTRs.











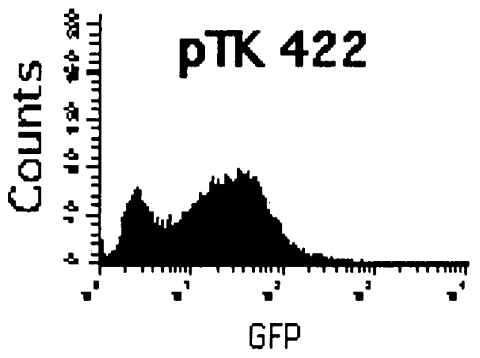


FIG. 6

Converting a simple expression cassette into a lentivirus vector by a single cloning step.

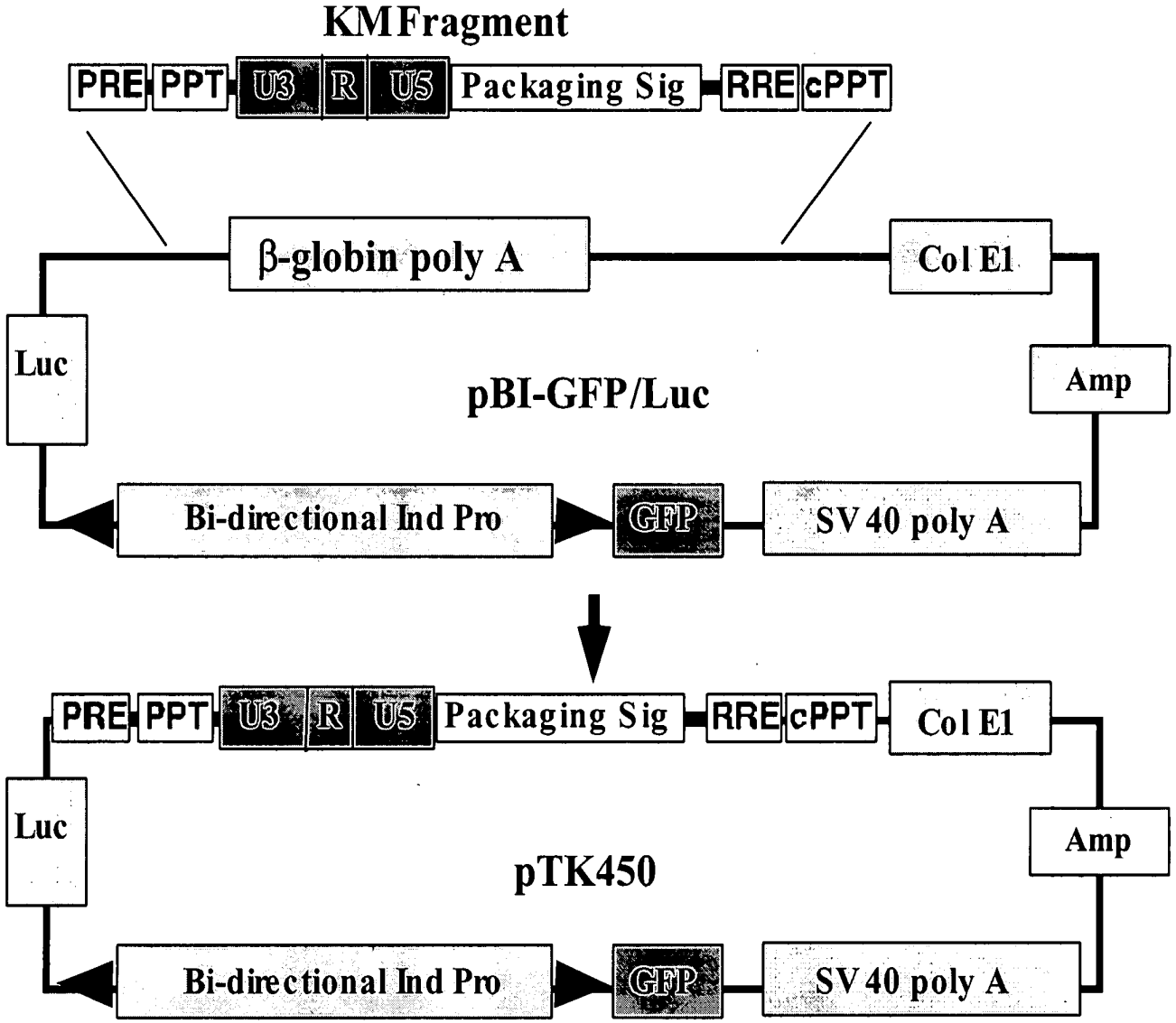


FIG. 7

Facs enrichment of tightly regulated transgene expression from Bi-directional inducible lentivirus vector.

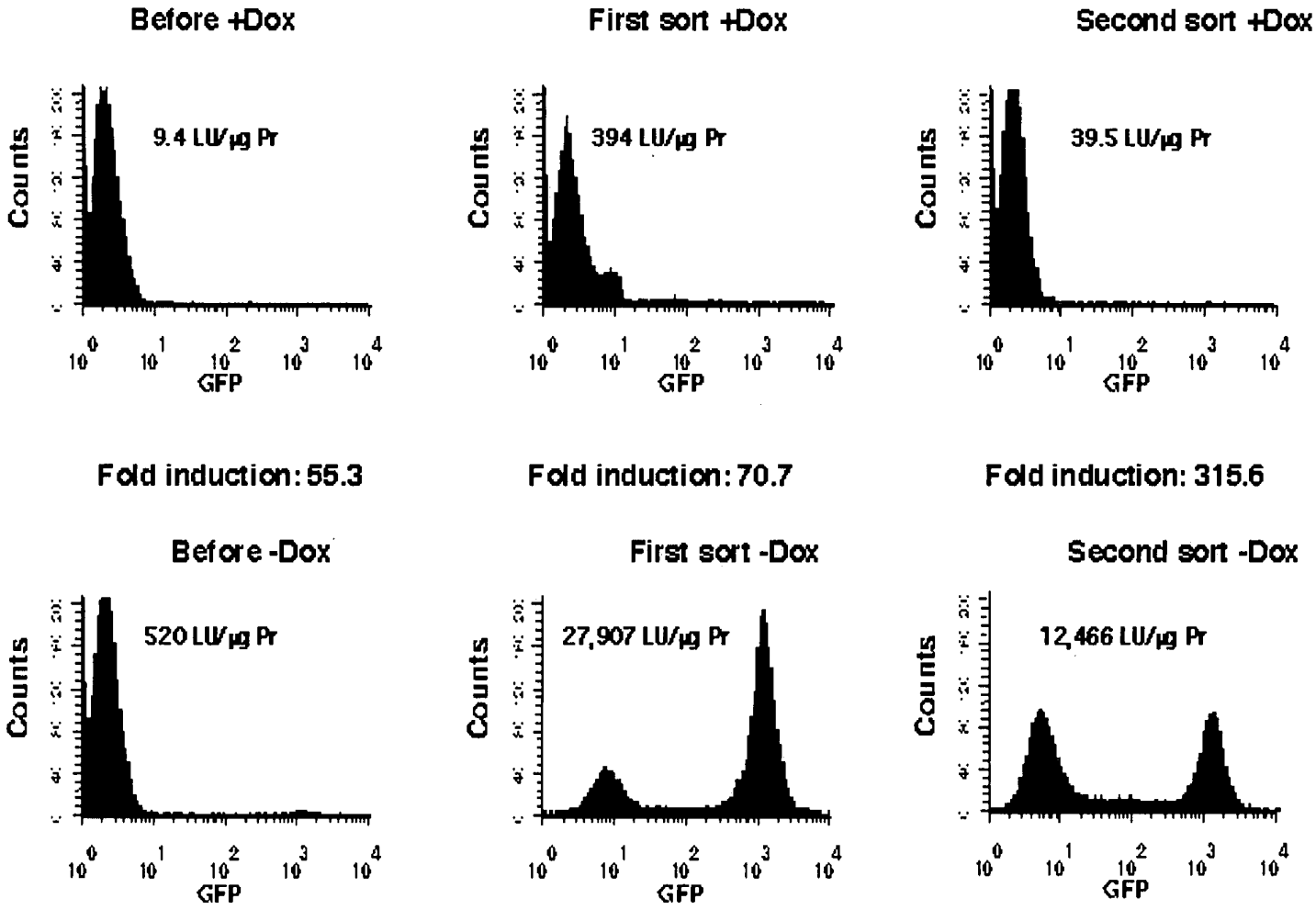
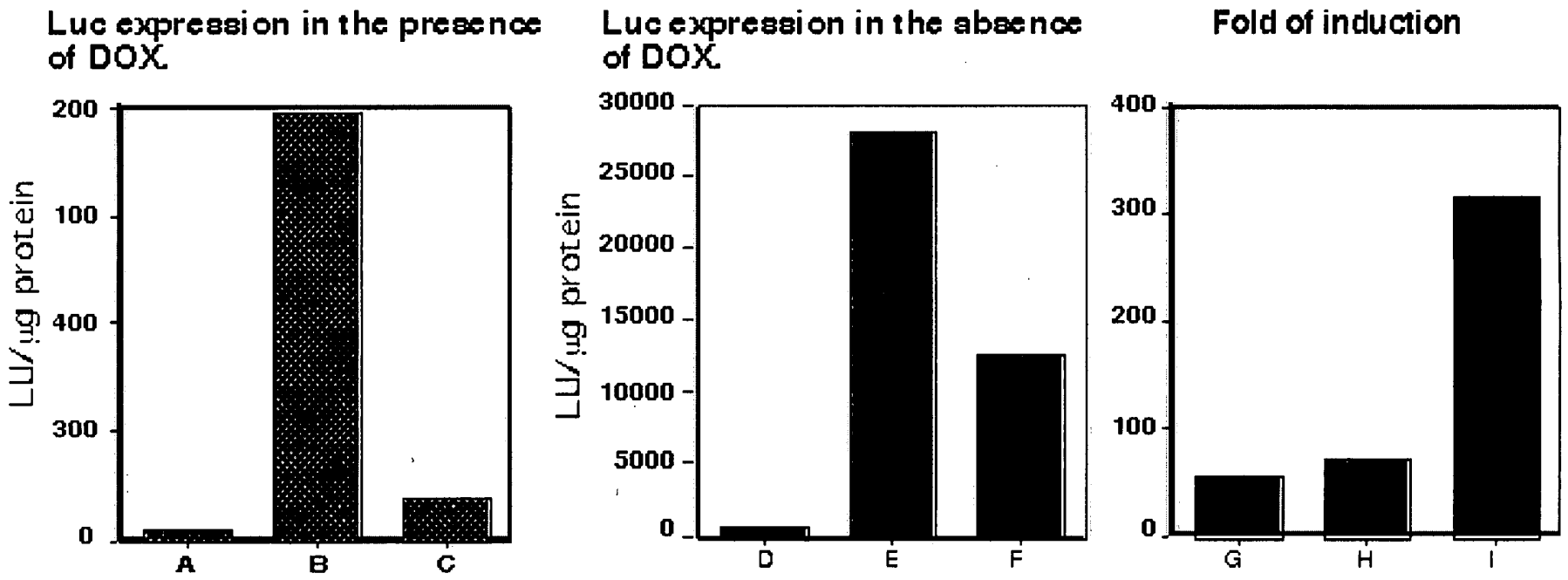


FIG. 8

Facs enrichment of 293T cells exhibiting inducible Luc expression.



A, D, G: Before sorting.

B, E, H: After first sort for +GFP.

C, F, I: After second sort for -GFP.

FIG. 9

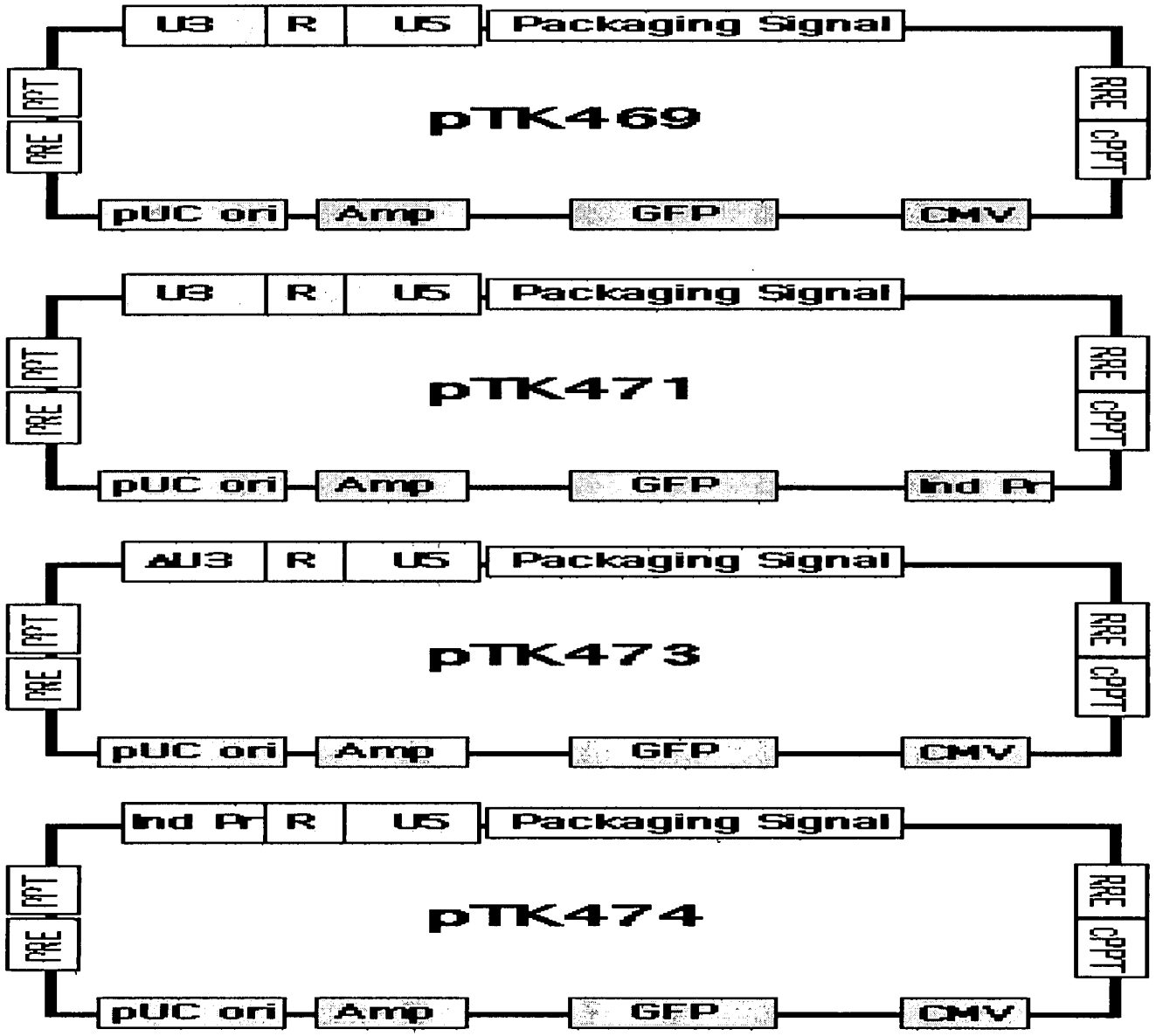

U3
R
U5
Packaging Signal
RRE
cPPT
pTK469
cPPT
RRE
pUC ori
Amp
GFP
CMV
U3
R
U5
Packaging Signal
RRE
cPPT
pTK471
cPPT
RRE
pUC ori
Amp
GFP
Ind Pr
ΔU3
R
U5
Packaging Signal
RRE
cPPT
pTK473
cPPT
RRE
pUC ori
Amp
GFP
CMV
Ind Pr
R
U5
Packaging Signal
RRE
cPPT
pTK474
cPPT
RRE
pUC ori
Amp
GFP
CMV

FIG. 10

The extended KM fragment

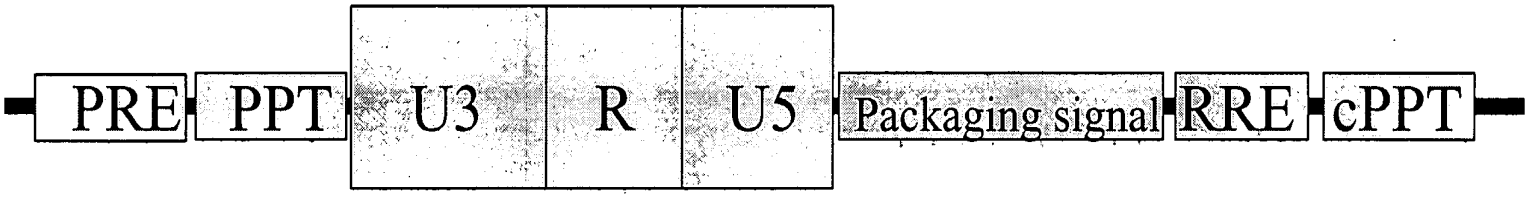


FIG. 11

Self-inactivating single LTR lentivirus vectors

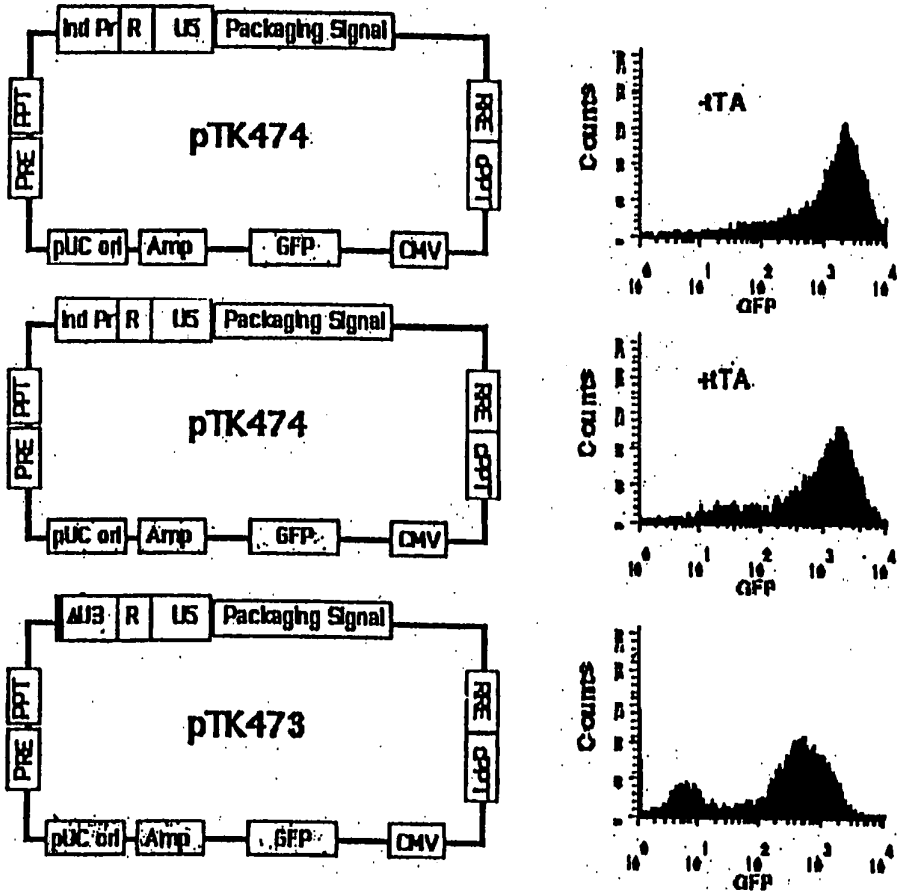


Fig. 12